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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/540,963	03/31/2000	Thomas S. Kupper	B0801/777170 (JRV) 2087 EXAMINER	
759	90 10/24/2003			
Wolf Greenfiel	ld & Sacks P C		WEHBE, ANNE M	IARIE SABRINA
Boston, MA 02210			ART UNIT	PAPER NUMBER
			1632	
			DATE MAILED 10/24/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Advisory Action	09/540,963	9/540,963 KUPPER ET AL.		
7.27.00.77.10.00.7	Examiner	Art Unit		
	Anne Marie S. Wehbe	1632		
The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence address		
THE REPLY FILED 13 August 2003 FAILS TO PLACE Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (1 condition for allowance; (2) a timely filed Notice of Appea Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this application in the same of th	ation. A proper reply to a h places the application in		
PERIOD FOR R	EPLY [check either a) or b)]			
 a)	Advisory Action, or (2) the date set forth later than SIX MONTHS from the mailin S FILED WITHIN TWO MONTHS OF The date on which the petition under 37 CF	g date of the final rejection. HE FINAL REJECTION. See MPEP R 1.136(a) and the appropriate extensio		
fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Off timely filed, may reduce any earned patent term adjustment. See 37 (f the shortened statutory period for reply ice later than three months after the mai	originally set in the final Office action; or		
1. A Notice of Appeal was filed on <u>13 August 2003</u>. A 37 CFR 1.192(a), or any extension thereof (37 CF				
2. \square The proposed amendment(s) will not be entered b	ecause:			
(a) they raise new issues that would require furth	er consideration and/or search (see NOTE below);		
(b) they raise the issue of new matter (see Note I	below);			
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mate	rially reducing or simplifying the		
(d) they present additional claims without cancelNOTE:	ing a corresponding number of fi	nally rejected claims.		
3. Applicant's reply has overcome the following rejection	tion(s):			
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	l be allowable if submitted in a se	parate, timely filed amendment		
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: se	r reconsideration has been consi e attached sheets.	dered but does NOT place the		
6. The affidavit or exhibit will NOT be considered bed raised by the Examiner in the final rejection.	cause it is not directed SOLELY t	o issues which were newly		
For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.				
The status of the claim(s) is (or will be) as follows:				
Claim(s) allowed:				
Claim(s) objected to:				
Claim(s) rejected: 1,5 7,12 14,18-21,25,28-30,36,37	and 48.			
Claim(s) withdrawn from consideration:				
8. \square The proposed drawing correction filed on is	a) ☐ approved or b) ☐ disapp	roved by the Examiner.		
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s)	·		
10. Other:				

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ATTACHEMENT TO ADVISORY ACTION

5. CONT. Applicant's arguments and amendments do not overcome the grounds of rejection of the claims under 35 U.S.C. 112, first paragraph, of record. The amendments, while overcoming a portion of the rejection of record dealing with the types of tissues to be targeted does not overcome the following issues of record: 1) the lack of enablement for targeting dendritic cells to lymphoid or non-lymphoid tissues which express a selectin ligand by transfecting the dendritic cells with an expression vector encoding any selectin other than an E/L-selectin chimera which contains the transmembrane and intracellular domains of L-selectin and the extracellular domain of E-selectin, 2) the lack of enablement for generating therapeutic or antigen-specific immune responses in vivo wherein the dendritic cells have not been pulsed with or transfected to express antigen. As previously noted, the specification does not teach any purpose for directing the dendritic cells to tissues or secondary lymph nodes other than for the vaccination against disease, particularly cancer. Further, while the applicant has deleted the word "vaccine" in the claims, the intended use of the claimed composition is clearly disclosed in the specification as treatment of cancer. The applicant's response does not provide any alternative use for generating antigenspecific immune responses other than disease treatment. Regarding 1), the previous office actions noted that the specification's working examples clearly demonstrate that the transduction of dendritic cells with an retrovirus encoding L-selectin did **not** result in expression of L-selectin on the dendritic cell surface (specification, page 28, lines 1-4). While the previous office action noted that the specification references a publication which teaches a non-cleavable form of Lselectin, the specification does not provide any evidence that dendritic cells can be modified to express a non-cleavable form of L-selectin or that expression of such a modified L-selectin would be capable of mediating dendritic cell homing to peripheral lymph nodes in vivo. The applicant's working example, as discussed above, utilizes a chimeric E/L selectin wherein the endothelial binding portion is derived from E selectin. Aside from this single working example, the applicant's data does not demonstrate or suggest that wild type L, E, or P-selectin can be used to effectively target dendritic cells to lymphoid or non-lymphoid tissue in vivo, or that any chimeric or mutated L, E, or P-selectin other than the chimeric E/L selectin is capable of targeting dendritic cells to peripheral lymph nodes or any other selectin expressing tissue in

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vivo. Please note as well, see section 6., that the post-filing reference by von Andrian et al. has not been considered since it is not directed solely to issues newly raised in the final office action. Therefore, for reasons of record, the rejection stands.

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Any inquiry concerning this communication from the examiner should be directed to Anne Marie S. Wehbé, Ph.D., whose telephone number is (703) 306-9156. The examiner can be reached Monday- Friday from 10:30-7:00 EST. If the examiner is not available, the examiner's supervisor, Deborah Reynolds, can be reached at (703) 305-4051. General inquiries should be directed to the group receptionist whose phone number is (703) 308-0196. The technology center fax number is (703) 872-9306.

Dr. A.M.S. Wehbé

ANNE M. WEHBE' PH.D PRIMARY EXAMINER

Jeller